Appendices

The appendices attached to this Record of Decision, as identified in the list below, should be considered part of the decision. There is no Appendix K. Appendix L is a revision of Appendix L from Vol. 2 of the FEIS because it focuses the decision for each allotment.

- A Errata sheet for FEIS
- B References
- C Documentation of consultation with National Marine Fisheries Service and US Fish and Wildlife Service concerning Threatened or Endangered Species
- Comment letter from the Environmental Protection Agency concerning draft FEIS that was omitted from FEIS
- E Monitoring Plan
- F Lands suitable for acquisition
- G Water Quality Restoration Plan
- H Limits of Acceptable Change
- Campsites with Grazing exclusions
- J Recreation sites to be Withdrawn from Mineral Entry
- L Grazing Decisions by Allotment

APPENDIX A John Day River Management Plan - Errata

VOLUME I

page vii - Table S-1, Commercial Use, Key Elements: omit "No limit on # of outfitter guide permits."

Page xv - Table S-3, Summary of Direct Impacts, under Grazing Issue, Management in WSR Grazing Excluded, Alternative A, <u>Present</u> Public and Private (miles of riverbank) should read **41.7** for Public and **50.9** for Private.

Page 27 - Third paragraph, end of last sentence, prior to (see Figure 2A) insert (USDI-USGS 2000a). Figure II-A: The title for this figure should read, "John Day River Hydrograph (1989-1998) at McDonald Ferry, Oregon"

Page 42 - Energy and Minerals: Agencies Regulating Mining; end of first paragraph, insert the following: "In addition, to operate a mine on any land in Oregon, the claimant must obtain an operating permit from Mined Land Reclamation Program, Oregon Department of Geology and Mineral Industries if over 5,000 cubic yards is moved, or over one acre is disturbed within a 12 month period. They must also obtain a reclamation bond from Mined Land Reclamation Program, Oregon Department of Geology and Mineral Industries"; the beginning sentence of the third paragraph under this heading should read, "The Oregon Division of State Lands (ODSL) issues prospecting permits for exploration and mining activities on state lands and the beds and banks of waterways."

Page 44 - Caves, first paragraph, end of third sentence, reference to 36 CFR should read, "....36 CFR, Part 290.3 (c) and (d)."

Page 51 - Consumptive Use, after fifth (last) paragraph, add the following: Withdrawals and Reservations Under Public Water Reserve No. 107

Springs in the planning area can qualify as a Public Water Reserve No. 107 if they meet the criteria for that reservation. In 1926, President Calvin Coolidge signed an executive order entitled "Public Water Reserve No. 107". The order states that "every smallest legal subdivision of public land surveys which is vacant, unappropriated, unreserved public land and contains a spring or water hole, and all land within one quarter of a mile of every spring or water hole... be...withdrawn from settlement, location, sale or entry, and reserved for public use...".

Public Water Reserve 107 was a general withdrawal of public lands made in response to the fact that, prior to that time, effective control over vast areas of the public domain could be gained merely by securing patents to small tracts surrounding available water sources for a given area. The 1926 reservation was designed to prevent this private monopolization of water on the public domain by withdrawing land and maintaining water open and free for the public use.

With the enactment of FLPMA in 1976, Congress limited the authority of the Executive Branch to make future withdrawals of land from the public domain. However, FLPMA stipulated that withdrawals and reservations existing at the time of its enactment shall

remain in effect. Therefore, even today the BLM can assert its PWR 107 claims and reserve and withdraw certain springs and waterholes from the public domain. The priority date of this reservation is April 17, 1926, the day the Executive Order was signed.

Because the 1926 Executive Order did not provide for individual land descriptions, it was left to the Secretary of the Interior to identify land and water areas subject to the order and note the land office records accordingly. Therefore, all springs and water holes that qualify as a Public Water Reserve No. 107 that existed as of the date of the Executive Order April 26, 1926 have been reserved even though they have not been recorded on a Master Title Plat or other document. However, Public Water Reserve No. 107 does not apply to lands acquired after April 17, 1926.

To date, no determination of which springs in the planning area qualify as a Public Water Reserve No. 107 has been made. We estimate that the amount of water encompassed by this Federal reserved water right is minimal (less than 1 cfs).

Page 52 - State and Federal Recommended Flows, replace second paragraph with the following:

Two types of water rights exist on the public lands: federal water rights, which consist of reserved water rights that originate under Federal law; and water rights which are acquired pursuant to State water law. Federal reserved water rights are a judicial creation; they are derived from Federal, not state, law. The doctrine of reserved rights holds: "That when the Federal Government withdraws its lands from the public domain and reserves it for a federal purpose, the Government, by implication, reserves appurtenant water then unappropriated to the extent needed to accomplish the purpose of the reservation. In doing so the United States acquires a reserved water right in unappropriated water which vests on the date of the reservation and is superior to the rights of future appropriators" (Cappaert v. United States, 1976). Thus, on withdrawn lands the reserved rights doctrine allows the federal government to remove water from availability for appropriation under state law.

The amount of water that the United States can claim under reserved rights depends on the purposes for which the lands were reserved. The reserved right must relate to the original primary purposes for which the land was withdrawn, and it is limited to the amount of water necessary for the reservation's specific purposes. The priority date for a federal reserved water right for the purposes of determining seniority relative to other rights obtained under state or federal law is the date when a reservation is established—the date of the statute, executive order, agreement, or treaty setting aside the land. Water rights already existing on a stream when a reservation is established are superior to the reserved rights of the federal government; federal reserved rights are superior only to subsequently established rights. This greatly limits the federal government's rights for newer reservations on heavily or fully appropriated streams, but it does provide protection against future uses.

The designation of a river as a wild, scenic or recreational river under the Wild and Scenic Rivers Act of October 2, 1968 explicitly reserves sufficient unappropriated water to fulfill the purposes of the Act. The amount of water reserved is the minimum amount necessary to protect the particular aesthetic, recreational, scientific, biotic or historic features ("values") which led to the river's designation. The amount of flow reserved will vary on a case-by-case basis. Segments of the John Day river system were designated by the Congress in 1988.

Page 54 - reference to (Collette and Harrison 1992a,b) has also been cited as (Northwest Power Planning Council 1992) in different places in the document. They are one in the same.

Page 55 - Third paragraph, end of last sentence, Unterwagner reference should read, (ODFW 1999).

Page 61 - Noxious Weeds, first paragraph, fourth sentence, complete sentence with "are affected by noxious weeds."

Page 76 - Water Quantity and Water Quality, second paragraph, delete second and third sentences and insert the following, "The 11 instantaneous measurements for June averaged 66* F. According to 18 afternoon measurements, the average daily afternoon water temperature was about 75* F in July and August."

Page 83 - Water Quantity and Water Quality, second paragraph, delete last sentence and insert the following, "Eleven instantaneous water measurements (1985-1998) averaged 66* F. Based on 18 afternoon measurements, the average daily afternoon water temperature was about 75* F in July and August (Cude 2000)."

Page 91 - Water Quantity and Water Quality, second paragraph, end of third sentence, USGS reference should read, (USDI-USGS 1998).

Page 92 - Water Quantity and Water Quality, first paragraph, delete seventh sentence to end of paragraph. In its place, insert "The 13 instantaneous measurements for June averaged 64* F. Service Creek during July and August averaged 23 C (73.4*F), and temperatures of samples taken at Cottonwood Bridge about two hours later in the day averaged 24 C (75*F) for the same dates (Cude 2000 - 20 data points 1981-1998). During the summer months, there is very little input of water into the system between Service Creek and McDonald Crossing, so decreases in temperature within stream are not likely below Service Creek".

Page 99 - Water Quantity and Water Quality, second paragraph, end of third sentence, insert (USDI-USGS 1999).

Page 107 - Water Quantity and Quality, second paragraph, second sentence, USGS citation should read (USDI-USGS 1999); and fourth paragraph, second sentence, reference to the North Fork Agricultural WQMP should be cited as (ODA 2000).

Page 122 - Segment 10: South Fork, Land Ownership and Classification, second paragraph, first sentence should read, "Most of this segment...is included in the federally designated **South** Fork of the John Day Wild and Scenic River...."

Page 143 - First full paragraph should be deleted and replaced with the following: Protection of instream flows in the John Day River system will rely, in part, on existing instream water rights that have been issued by the State of Oregon for some segments. These rights are subject to senior priority appropriations and do not actually ensure that flows are sufficient to support the Outstandingly Remarkable Values. When flows are available, however, existing instream rights protect that flow from junior priority consumptive use. The Oregon Water Resources Department has identified desired flow levels to protect recreation, fish, and wildife in the John Day River and its forks. These flow levels are not water rights; rather, the OWRD uses them in its calculations of water availability during low flows.

The BLM will use a variety of tools, authorities and strategies to achieve instream flow levels that support the river values. These tools include: leasing (in the short term) and transferring existing BLM consumptive use rights to instream uses (in the long term); entering cooperative agreements with the State of Oregon and other agencies for the purchase of water rights from willing sellers for transfer to instream uses; and, if these other tools are not effective, quantification and assertion of the BLM's Federal reserved water right.

Page 150 - Table 3-D. Issue - Dispersed Recreation, Alternative B, C, and D, Segment 2, omit the word "Creek" after Clarno.

Page 152 - Table 3-D. Issue - Commercial Use, Alternative B, omit statement number 4 and change number 5 to number 4.

Pages 155-156 - Noxious Weed Control, throughout this highlighted section, references should be cited accordingly: Northwest Area Noxious Weed Control Program FEIS (USDI-BLM 1985b); Northwest Area Noxious Weed Control Program Supplement (USDI-BLM 1987a); Vegetation Treatment on BLM Lands in Thirteen Western States FEIS (USDI-BLM 1991c); EA #OR-053-3-062 (USDI-BLM 1994); EA #OR-054-3-063 (USDI-BLM 1997b).

Page 169 - Table 3-E. Segment 11, 4067 Sheep Ck. B, Riparian Grazing Mgt., omit the numbers 3 and 5

Page 170 - Alternative B (Proposed Decision), Measure 1, end of second sentence, insert (USDI-USGS 2000b).

Page 171 - Last paragraph, fourth sentence, delete "Following three years rest,...", begin sentence with "Grazing in the new riparian pasture...".

Page 175 - Management Common to All Action Alternatives, first paragraph, second to last sentence, legal descriptions should read "...RM 112; T8S, R19E, Section 3, NE1/4SW1/4 and Section 4, NW1/4SE1/4 (15.3 acres) and RM 119; T8S, R19E, Section 25, SW1/4NW1/4 (10.3 acres)."

Page 182 - Dispersed Recreation, the first occurrence of **Common to All Alternatives** (**Proposed Decision**) and all associated text should be moved to occur before Alternative A. The second occurrence of Common to All Alternatives should read, **Common to All Action Alternatives** (**Proposed Decision**).

Page 184 - Public Access, the second occurrence of the heading Common to All Alternatives should read "Common to All Action Alternatives (Proposed Decision).

Page 185 - Commercial Uses, immediately after the first occurrence of the heading Common to All Alternatives insert (Proposed Decision). The second occurrence of the heading Common to All Alternatives should read, Common to All Action Alternatives (Proposed Decision). In the second paragraph after this last heading, delete the last sentence.

Page 186 - Alternative B (Proposed Decision), last paragraph, last sentence, reference to USDA-FS should be cited as (USDA-FS 1997).

Page 187 - Leasable Minerals, first paragraph, second sentence should read, "In the Two Rivers RMP...."

Page 187 - Alternative B (Proposed Decision), Replace 1. With the following:

1. The John Day and Baker RMP's would be amended by subjecting leasable minerals on public lands falling within the John Day River Canyon to a no surface occupancy restriction (remaining portions of planning area already have this restriction under the Two Rivers RMP). This applies to Segments 5, 6, 7, 8, 9, 10, 11, and the Grant County portion of Segment 4 for the John Day RMP and to the Umatilla County portion of Segment 7 for the Baker RMP.

Page 217 - Noxious Weed Control, first paragraph, references to EA OR-053-3-062 should read (USDI-BLM 1994), EA OR-054-3-063 should read (USDI-BLM 1997b), Northwest Area Noxious Weed Control FEIS should read (USDI-BLM 1985), Supplemental FEIS should read (USDI-BLM 1987) and Vegetation Treatment on BLM Lands FEIS should read (USDI-BLM 1991c).

Page 241 - Riparian and Aquatic Habitat Restoration, fourth paragraph, third sentence, citation of BLM 1996a should read **USDI-BLM 1996a** and **insert a period** after the parentheses.

Page 246 - Boating Use Levels, Alternative C, insert the word "be" between the words would and small.

Page 361 - Oregon Parks and Recreation Department reference should extend to left margin.

Page 365 - References, Steward, O.C. should read Stewart, O.C.

Page 367 - reference USDI-BLM 1994, **delete** "District-Wide Interim..." and **insert** "Prineville District Integrated...".

Page 368 - reference USDI-BLM 1997b, should read "Lower John Day River Integrated Weed Management Environmental Assessment/Decision Record #OR-054-3-063".

VOLUME II

Page 11 - Appendix E, Special Status Wildlife Species, the columns for Columbian Sharp-tailed Grouse and Washington Ground Squirrel have shifted to the right.

Page 175 - 2656 Dry Knob, omit "Special Seasonal Limitation..." statement at bottom of page.

Page 197 - Appendix L, AUM's Within Lease, should read 436, not 7,698.

Page 234 - Appendix L, Allotment Summary, 4122 Big Bend, Riparian management in 1999, should read, "Exclusion"

Page 240 - **Omit** allotment 4046 Three Mile, it is no longer a BLM allotment due to the Norheast Oregon Assembled Land Exchange.

VOLUME III

Page ii - Contents, 2400 Public Access, 2502, should read, "Limits of Acceptable Change"

Page 16 - S-026.3, second response, third sentence, **insert** the word "**not**" between the words 'will' and 'seriously'.

Page 18 - J-002.7, Response, the reference to the (Northwest Area Noxious Weed Control Program Supplemental FEIS, 1987) should read (USDI, BLM 1987).

Page 34 - B-042.1, Response, second paragraph, the Northwest Area Noxious Weed Control Program Supplemental FEIS (1987) should be referenced as (USDI, BLM 1987) and the Northwest Area Noxious Weed Control Program FEIS (1985) should be referenced as (USDI, BLM 1985b).

Page 34 - B-042.1, Response, fourth paragraph, the Stohlgren reference should be cited **Stohlgren et al. (1999a)**.

Page 36 - B-042.3, Response, EA #OR-054-3-063 should be referenced as (USDI, BLM 1997b) and EA # OR-053-3-062 should be referenced as (USDI, BLM 1994).

Page 72 - B-042.6, second response, first paragraph, the citation for (USDA, 1977) should be referenced as (USDA, SCS and OAES, 1977).

Page 74 - B-042.6, Response, third paragraph, first sentence, insert **1985** after Bohn and Buckhouse reference.

Page 75 - B-042.6, Response, end of paragraph at top of page, citation should read (**Buckhouse**, **2000**). Likewise, in the second full paragraph, the reference to the personal communication should read (**Buckhouse**, **2000**).

Page 80 - B-042.22, Response, second sentence, reference to Larson and others (1998) should read **Larson et al. (1998)**.

Page 96 - Reference to Stohlgren et al. (1999) should read Stohlgren et al. (1999a)

Page 99 - F-006.4, Response, second paragraph, references to 'Managing Change' should be cited as **Chaney et al. 1993**.

Page 101 - H-032.1, Response, second paragraph, reference to 'Managing Change' should be cited as **Chaney et al. 1993**.

Page 102 - K-021.6, Response, second paragraph, citation CRITFC 1995 should read CRITFC 1996.

Page 131 - C-038.12, Response, first paragraph, references in this paragraph should be cited as follows: EA's (OR-054-3-063) should read (USDI, BLM 1997b) and (OR-053-3-062) should read (USDI, BLM 1994). The Vegetation Treatment on BLM Lands in Thirteen Western States

FEIS reference should be cited as (USDI, BLM 1991c) and The Northwest Area Noxious Weed Control Program FEIS should be cited as (USDI, BLM 1985b).

Page 136 - B-042.12, Response, second paragraph, references to EA OR-053-3-062 and EA OR-054-3-063, should be cited as **USDI**, **BLM 1994** and **USDI**, **BLM 1997b**, respectively. The Vegetation Treatment on BLM Lands FEIS should be cited as **(USDI**, **BLM 1991c)** and Nortwest Area Noxious Weed FEIS should be cited as **(USDI**, **BLM 1987)**. In the third paragraph, EA OR-053-3-062 should be cited as **(USDI**, **BLM 1991c)**, Vegetation Treatment in Thirteen Western States FEIS (1997) should be cited as **(USDI**, **BLM 1997b)**, and the Northwest Area Noxious Weed FEIS (1987) should be cited as **(USDI**, **BLM 1987b)**.

Page 152 - 2502, should read, "Limits of Acceptable Change"

Page 176 - C-029.8, Response, **omit** the sentence, "Wilderness Study Areas (WSAs) are closed to all motorized and mechanized use."

Page 184 - A-007.5, Response, last paragraph, end of sentence, **insert "the"** between the words on and John Day River.

Page 209 - B-042.5, Response, first paragraph, fifth sentence, **insert "not"** between the words 'will' and 'be'; second paragraph, **insert "of"** between efforts and private landowners.

Page 226 - 3003 Affected Environment, B-042.4, Response, third paragraph, **delete all but first sentence**, indented statement.

Page 227 - B-042.4, Response at top of page, first paragraph, sixth sentence, reference to the Willow Study (BLM 1996a) should correctly be cited as (USDI, BLM 1996a). Response at bottom of page, first paragraph, reference to EA OR-054-3-063 should be cited as (USDI, BLM 1997b) and EA OR-053-3-062 should be cited as (USDI, BLM 1994).

Page 230 - B-042.4, Response, beginning of reference listing, insert **1995** after Belnap, J. and K.T. Harper. At end of page, **capitalize A** in Arbelbide.

Page 231 - The paragraph beginning with "Upland Vegetation" is a comment and should be indented and italicized.

APPENDIX B References

Agee, J.K.

1990 The Historical Role of Fire in Pacific Northwest Forests. <u>In Natural and Prescribed Fire in Pacific Northwest Forest.</u> Walstad, J.D., S.R. Radosevich, and D.V. Sandberg, eds. Oregon State University Press. Corvallis, OR.

1993 Fire Ecology of Pacific Northwest Forests. Island Press. Washington D.C.

Ammon, E.M., and P.B. Stacey

1997 Avian Nest Success in Relation to Past Grazing Regimes in a Montane Riparian System. Condor 99(1):7-13.

Asher, J.

1993 Noxious Weeds in Eastern Oregon. USDI, Bureau of Land Management, Oregon State Office. Portland, OR.

Atwell, R.G. and K.T. Katsura

1995 Site 35-GM-25. In Volume IIB, Summary Reports: Prehistoric Sites Oregon. Archaeological Investigations PGT-PG&E Expansion Project Idaho, Washington, Oregon, and California. Michael J. Moratto, General Editor. INFOTEC Research, Inc. Fresno, CA.

Ballard, T.M.

1999 Interactions of Cattle and Chinook Salmon. A Masters of Science Thesis, Oregon State University. Corvallis, OR.

Barber, J.

1988 Mapping of the Groundwater System on Camp Creek Using Geophysical Methods. Masters Thesis. Oregon State University, Corvallis, OR.

Bedell, E.T., and M.M. Borman

1997 Watershed Management Guide for the Interior Northwest. Oregon State University Extension Service, Corvallis, OR.

Behnke, R.J.

1992 Native Trout of Western North America. American Fisheries Society Monograph 6. Bethesda, MA.

Belanger, L., and J. Bedard

1990 Energetic Cost of Man-Induced Disturbance to Staging Snow Geese. Journal of Wildlife Management 54:36-41.

Bellrose, F.C.

1976 Ducks, Geese and Swans of North America. Wildlife Management Institute. Stackpole Books Publishing. Harrisburg, PA.

Belnap, J., and T. Harper

1995 Influence of Cryptobiotic Soil Crusts on Elemental Content of Tissue in Two Seed Plants. Arid Soil Research and Rehabilitation 9:107-115.

Belnap, J., R. Rosentreter, J. Kaltenecker, J. Williams, S. Leonard, P. Luehring, and D. Eldridge 1999 Biological Soil Crusts: Ecology and Management. USDI-BLM Training Center, Phoenix. AZ.

Belsky, A.J.

1996 Viewpoint: Western Juniper Expansion: Is it a Threat to Arid Northwestern Ecosystems? Journal of Range Management 49(1):53-59.

Belsky, A.J., A. Matzke, and S. Uselman

1999 Survey of Livestock Influences on Stream and Riparian Ecosystems in the Western United States. Journal of Soil and Water Conservation. 54(1):419-431.

Benda, L., D. Miller, J. Sias, T. Dunne, and G. Reeves

1999 General Landscape Theory of Organized Complexity. Special Publication 3.1. Earth Systems Institute, Seattle, WA.

Beschta, R.L.

1991 Stream Habitat Management for Fish in the Northwestern United States: The Role of Riparian Vegetation. American Fisheries Society Symposium 10:53-58.

Beschta, R.L. and W.S. Platts

1986 Morphological Features of Small Streams: Significance and Function. Water Resources Bulletin 22(3).

Beschta, R.L., W.S. Platts and J.B. Kauffman

1991 Field Review of Fish Habitat Improvement Projects in the Grande Ronde and John Day River Basins of Eastern Oregon. DOE/BP-21493-1. U.S. Department of Energy, Bonneville Power Administration, Portland, OR.

Beschta, R.L., W.S. Platts, J.B. Kauffman and M.T. Hill

1994 Artificial Stream Restoration - Money Well Spent or An Expensive Failure? <u>In Proceedings of the Universities Council on Water Resources 1994 Annual Meeting: Environmental Restoration. Big Sky, MT. pp 76-104.</u>

Bock, C.E., V.A. Saab, T.D. Rich, and D.S. Dobkin

1993 Effects of Livestock Grazing on Neotropical Migratory Landbirds in Western North America. <u>In</u> Status and Management of Neotropical Migratory Birds. D. M. Finch and P. W. Stengel, eds. USDA Forest Service General Technical Report, RM-229.

Bohn, C.C., and J.C. Buckhouse

1985 Some Responses of Riparian Soils to Grazing Management in Northeastern Oregon. Journal of Range Management 38(4):378-381.

Broad, T.M., and C.A. Collins

1996 Estimated Water use and general Hydrologic Conditions for Oregon, 1985 and 1990. US Geologic Survey, Water-Resources Investigative Report 96-4080.

Brooks, K.N., P.F. Ffolliott, H.M. Gregersen, and J.L. Thames

1991 Hydrology and the Management of Watersheds. Iowa State University Press, Ames, IA.

Bryant, L.D., and J.M. Skovlin

1982 Effects of Grazing Strategies and Rehabilitation on an Eastern Oregon Stream. <u>In Symposium on Habitat Disturbance and Recovery.</u> California Trout, Inc. San Francisco, CA. pp 27-30.

Buckhouse, J.C.

2000 Personal communication on 4/10/2000 at Oregon State University.

Buckhouse, J.C., and G.F. Gifford

1976 Water Quality Implications of Cattle Grazing on a Semiarid Watershed in Southeastern Utah. Journal of Range Management 29(2):109-113.

Buckhouse, J.C., J.M. Skovlin, and R.W. Knight

1981 Streambank Erosion and Ungulate Grazing Relationships. Journal of Range Management 34:339-340.

Burtchard, G.C.

1998 Environment, Prehistory & Archaeology of the John Day Fossil Beds National Monument, Blue Mountain Region, North-Central Oregon. Prepared for the National Park Service, John Day Fossil Beds National Monument, Oregon and Columbia-Cascade Office, Seattle, Washington.

Busby, F.E.

1994 Preface. Rangeland Health: New Methods to Classify, Inventory, and Monitor Rangelands. <u>In</u> Committee on Rangeland Classification, Board on Agriculture, National Research Council, 1994. National Academy Press, Washington, DC.

Busse, C.G.

1989 Ecology of the Salix and Populus Species of the Crooked River National Grasslands. M.S. Thesis. Oregon State University, Corvallis, OR.

Butler, R.G., G.T. Orlob, and P.H. McGauhey

1954 Underground Movement of Bacterial and Chemical Pollutants. Journal of the American Water Works Association 46:97-111.

Campbell, A.

1980 John Day River: Drift and Historical Guide. Revised Edition. Frank Amato Publication, Inc. Portland, OR.

Campbell, A.G., and J.F. Franklin

1979 Riparian Vegetation in Oregon's Western Cascade Mountains: Composition, Biomass, and Autumn Phenology. Coniferous Forest Biome, Ecosystems Analysis Studies, U.S. International Biological Program, Progress Bulletin Number 14. University of Washington, Seattle, WA.

Center for Population Research and Census

1998 Population Estimates for Oregon: July 1, 1998. Portland State University. Portland, OR. [online] URL: http://www.uqa.pdx.edu/CPRC/pbsrv 1.html]

Chaney, E., W. Elmore, and W.S. Platts

1993 Managing Change: Livestock Grazing on Western Riparian Areas. Produced for the US Environmental Protection Agency by the Northwest Resources Information Center, Inc. Eagle, ID.

Cheater, M.

1992 Alien Invasion. Nature Conservancy, Sept/Oct.

Chilcote, M.W.

1998 Conservation Status of Steelhead in Oregon. Information Reports Number 98-3. Oregon Department of Fish and Wildlife, Fish Division, Portland, OR.

Claire, E.

1991 Personal Communications, BLM Staff Report

Clark, R.N., and D.R. Gibbons

1991 Recreation. <u>In Influences of Forest and Rangeland Management on Salmonid Fishes and Their Habitats</u>. American Fisheries Society Special Publication 19. Bethesda, MD.

Clary, W.P.

1999 Stream Channel and Vegetation Responses to Late Spring Cattle Grazing. Journal of Range Management 52(3):218-227.

Clary, W.P., and B.F. Webster

1989 Managing Grazing of Riparian Areas in the Intermountain Region. USDA-FS General Technical Report INT-263. Ogden, UT.

Clary, W.P., N.L. Shaw, J.G. Dudley, V.A. Saab, J.W. Kinney, and L.C. Smithman

1996 Response of a Depleted Sagebrush Steppe Riparian System to Grazing Control and Woody Plantings. USDA, Forest Service Research Paper INT-RP-492.

Colbert, J.L., and K.J. St. Mary

1973 Review of Waterpower Classification and Withdrawal, John Day River Basin, Oregon. US Geological Survey Open File Report. Conservation Division. Portland, OR.

Collette, C. and J. Harrison (editors)

1992a Columbia River Basin Fish and Wildlife Program - Strategy for Salmon, Volume I. Northwest Power Planning Council.

1992b Columbia River Basin Fish and Wildlife Program - Strategy for Salmon, Volume II. Northwest Power Planning Council.

Cooperrider, A.Y., R J. Boyd, and H R. Stuart, eds.

1986 Inventory and Monitoring of Wildlife Habitat. USDI, Bureau of Land Management, Denver Service Center. Denver, CO.

Congressional Record

1988 Omnibus Oregon Wild and Scenic Rivers Act (S. 2148). October 7, 1988.

Conservation Committee Report

1978 Management of National Wildlife Refuges in the United States: Its Impact on Birds. Wilson Bulletin 90:309-321.

CRITFC (Columbia River Inter-Tribal Fish Commission)

1996 Wy-Kan-Ush-Mi Wa-Kish-Wit, Spirit of the Salmon: The Columbia River Anadromous Fish Restoration Plan of the Nez Perce, Umatilla, Warm Springs and Yakima Tribes. Volume I. Portland, OR.

Cressman, L.S.

1937 Petroglyphs of Oregon. University of Oregon Monographs, Studies in Anthropology No. 2. Eugene.

1950 Archaeological Research in the John Day Region of North Central Oregon. American Philosophical Society Proceedings 94:369-390. Philadelphia.

Cude, C.

2000 Oregon Water Quality Index Report for the John Day Basin Water Years 1986-1995. [on line] URL: <a href="http://www.deq.state.or.us/lab/WQM/WQI/johnday/jo

Cummins, K.W.

1974 Structure and Function of Stream Ecosystems. Bioscience 24:631-641.

Dagget, D.

1995 Beyond the Rangeland Conflict: Toward a West that Works. Grand Canyon Trust. Flagstaff, AZ.

Dahlgren, R.B. and C.E. Korschgen

1992 Human Disturbances of Waterfowl: An Annotated Bibliography. U.S. Department of Interior; Fish and Wildlife Service. Resource Publication 188.

Dobkin, D.S.

1994 Conservation and Management of Neotropical Migrant Landbirds in the Northern Rockies and Great Plains. University of Idaho Press. Moscow, ID.

Doran, J.W., and D. M. Linn

1979 Bacteriological Quality of Runoff from Pastureland. Applied and Environmental Microbiology 37:985-991.

Duff, D.A.

1977 Livestock Grazing Impacts on Aquatic Habitat in Big Creek, Utah. In: Proceedings of the Workshop on Livestock and Wildlife-Fisheries Relationships in the Great Basin. Pages 129-142. Sparks, Nevada. U.S. Department of Agriculture, Forest Service Pacific S.W. Forestry and Range Experimental Station, Berkeley, Calif. Special Publication 33901.

1979 Riparian Habitat Recovery on Big Creek, Rich County, Utah. Pp. 91. In Proceedings, Forum-Grazing and Riparian/Stream Ecosystems. Trout Unlimited, Inc. Vienna, VA.

1996 Conservation Assessment for Inland Cutthroat Trout Status and Distribution. (tech. ed.). USDA Forest Service, Intermountain Region, Ogden, UT.

Dumond, D.E., and R. Minor

1983 Archaeology in the John Day Reservoir: The Wildcat Canyon Site, 35-GM-9. University of Oregon Anthropology Papers 30. Eugene.

Eberhart, L.E., R.G. Anthony, and W.H. Rickard

1989 Movement and Habitat Use by Great Basin Canada Goose Broods. Journal of Wildlife Management 53:740-748.

Ehrhart, R.C. and P.L Hansen

1997 Effective Cattle Management in Riparian Zones: A Field Survey and Literature Review. Montana BLM Riparian Technical Bulletin No. 3, USDI, BLM, Montana State Office.

Eldridge, D.J., and R. Rosentreter

1999 Morphological Groups: A Framework for Monitoring Microphytic Crusts in Arid Landscapes. Journal of Arid Environments 41:11-25.

Elmore, W.

1998 Twenty-One Years. Range Magazine, Spring. Carson City, NV.

1999 Personal communications. USDI, BLM, Prineville.

Elmore, W., and R.L. Beschta

1987 Riparian Areas: Perceptions in Management. Rangelands 9:260-265.

Elmore, W. and J.B. Kauffman

1994 Riparian and Watershed Systems: Degradation and Restoration. <u>In Ecological Implications of Herbivory in the West. M. Vavra, W.A. Laycock, and R.D. Piper, eds. Society of Range Management, Denver, CO. pp 211-232.</u>

Farmer , J.A., D.B. Karnes, G.T. Babich, T.P. Porterfield and K.L. Holmes
1973 An Historical Atlas of Early Oregon. Portland: Historical Cartographic Publications.

Friedel, M.H.

1991 Range Condition Assessment and the Concept of Thresholds: A Viewpoint. Journal of Range Management 44(5):422-426.

Frost, W.E., and E.L. Smith

1991 Biomass Productivity and Range Condition on Range Sites in Southern Arizona. Journal of Range Management 44(1):64-67.

Frost, W.E., E.L. Smith, and P.R.Ogden

1994 Utilization Guidelines. Rangelands 16(6):256-259.

Garren, J.

1979 Oregon River Tours. Garren Publishing, Portland, OR.

Gary, H.L., S.R. Jhonson, and S.L. Ponce

1983 Cattle Grazing Impact on Surface Water Quality in a Colorado Front Range Stream. Journal of soil and Water conservation 38:124-128.

Gerba, C.P., C. Wallis, and J.L. Melnick.

1975 Fate of Wastewater Bacteria and Viruses in Soil. <u>In Proceedings of the American Society of Civil Engineers</u>, Irrigation and Drainage Division 101:157-174.

Green, D.M., and J.B. Kauffman

1995 Succession and Livestock Grazing in a Northeast Oregon Riparian Ecosystem. Journal of Range Management 48:307-313.

Hall, F.C., and L. Bryant

1995 Herbaceous Stubble Height as a Warning of Impending Cattle Grazing Damage to Riparian Areas. USDA-FS, Pacific Northwest Research Station, General Technical Report PNW-GTR-362.

Hall, F.C., and T. Max

1999 Technical Note: Test of Observer Variability in Measuring Reportan Shrub Twig Length. Journal of Range Management 52 (6):633-636.

Hansen, P.L., R.D. Pfister, K. Boggs, B.J. Cook, J. Joy, and D.K. Hinkley

1995 Classification and Management of Montana's Riparian and Wetland Sites. Miscellaneous Publication No. 54, Montana Forest and Conservation Experiment Station, School of Forestry, University of Montana. Missoula, MT.

Hanson, C.B., and G.A. Allen

n.d. Inventory of Paleontological Resources of the John Day River Valley between Kimberly and Picture Gorge, Grant and Wheeler Counties, Oregon. Draft manuscript on file Prineville District BLM, Prineville, OR.

Hanson, W.C., and L.L. Eberhardt

1971 A Columbia River Canada Goose Population, 1950-1970. Wildlife Monograph 28. The Wildlife Society, Washington, D.C.

Harper, K.T., and J.R. Marble

1988 A Role for Nonvascular Plants in Management of Arid and Semiarid Rangelands. <u>In Vegetation Science Applications for Rangeland Analysis and Management</u>. P.T. Tueller (ed). Kluwer Academic Publishers. Boston, MA.

Heady, H.F. and R.D. Child

1994 Rangeland Ecology and Management. Westview Press, San Francisco, CA.

Helland, R.O.

1931 Memorandum on Power Possibilities of John Day River from Mouth to Mile 33. Bureau of Reclamation, Denver.

Hendricks, C.W., and S.M. Morrison

1967 Multiplication and Growth of Selected Enteric Bacteria in Clear Mountain Stream Water. Water Resources 1:567-576.

Hitchcock, C.L. and A. Cronquist

1973 Flora of the Pacific Northwest, an Illustrated Manual. University of Washington Press, Seattle, WA.

Holechek, J.L., R. Valdez, S.D. Schemnitz, R.D. Pieper, and C.A. Davis

1982 Manipulation of Grazing to Improve or Maintain Wildlife Habitat. Wildlife Society Bulletin 10:204-210.

Holechek, J.L., R.D. Pieper, and C.H. Herbel

1989 Range Management Principles and Practices. Printice-Hall, Inc. Englewood Cliffs, New Jersey.

Hormay, A.L.

1970 Principles of Rest-Rotation Grazing and Multiple-Use Land Management. USDI, Bureau of Land Management and USDA, Forest Service, Washington, D.C.

Horton, G.E.

1994 Effects of Jet Boats on Salmonid Reproduction in Alaskan Streams. Masters of Science Thesis, University of Alaska, Fairbanks.

Hubert, W.A., R.P. Lanka, T.A. Wesche, and F. Stabler

1985 Grazing Management Influences on Two Brook Trout Streams in Wyoming. <u>In Riparian Ecosystems and Their Management: Reconciling Conflicting Uses.</u> First North American Conference. R.R. Johnson, C.D. Ziebell, D.R. Patton, P.F. Ffolliott, and R.H. Hamre (tech. eds.). U.S.D.A. Forest Service General Technical Report RM-120. Fort Collins, CO. pp 290-294.

Hurlocker, S.

???? Personal Communication.

Interagency Wild and Scenic Rivers Coordinating Council

1997 Wild and Scenic Rivers Reference Guide: A Technical Report. Prepared by the Bureau of Land Management, National Park Service, US Fish and Wildlife Service, and the USDA, Forest Service.

Jackivicz, T.P., JR., and L.N. Kuzminski

1973a A Review of Outboard Motor Effects on the Aquatic Environment. Journal of Wat. Pollut. Control Fed., 45:1759-1770.

1973b The Effects of the Interaction of Outboard Motors with the Aquatic Environment - A Review. Environmental Research 6:436-454.

Jensen, S., R. Ryel, and W.S. Platts

1989 Classification of Riverine/Riparian Habitat and Assessment of Nonpoint Source Impact, North Fork Humboldt River, Nevada. USDA Forest Service Intermountain Research Station. Boise, ID.

Johansen, J.R., J. Ashley, and W.R. Rayburn

1993 Effects of Range Fire on Soil Algal Crusts in Semiarid Shrub-Steppe of the Lower Columbia Basin and Their Subsequent Recovery. Great Basin Naturalist 53:73-88.

Johnson, R.E.

1964 Fish and Fowl. In Waterfowl Tomorrow. J.P. Linduska, ed. USDI, Fish and Wildlife Service. U.S. Government Printing Office. Washington, D.C.

Johnson, R., V. Litz, and K.A. Cheek

1995 Assessing the Economic Impacts of Outdoor Recreation in Oregon. Prepared for the Oregon State Parks and Recreation Department.

Karr, J.R., and I.J. Schlosser

1978 Water Resources and the Land-Water Interface. Science 201:229-2354.

Kauffman, J.B. and W.C. Krueger

1984 Livestock Impacts on Riparian Ecosystems and Streamside Management Implications...a Review. Journal of Range Management 37:430-437.

Kauffman, J.B., W.C. Krueger, and M. Vavra

1983a Impacts of Cattle on Streambanks in Northeastern Oregon. Journal of Range Management 36(6):685-691.

1983b Effects of Late Season Cattle Grazing on Riparian Plant Communities. Journal of Range Management 36(6):685-691.

Kauffman, J.B., R.L. Beschta and W.S. Platts

1993 Fish Habitat Improvement Projects in the Fifteenmile Creek and Trout Creek Basins of Central Oregon: Field Review and Management Recommendations. DOE/BP-18955-1. U.S. Department of Energy, Bonneville Power Administration, Portland, OR.

Kauffman, J.B., R.L. Beschta, N. Otting, and D. Lytjen

1997 An Ecological Perspective of Riparian and Stream Restoration in the Western United States. Fisheries 22:12-24.

Keigley, R.B., and M.R. Frisina

1998 Browse Evaluation by Analysis of Growth Form: Volume I, Methods for Evaluation Condition and Trend. Montana Fish Wildlife and Parks, Helena, MT.

Kennedy, C.E.

1977 Wildlife Conflicts in Riparian Management: Water. <u>In Importance</u>, Preservation and Management of Riparian Habitat. USDA Forest Service General Technical Report RM-43. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO. pp 52-58.

Kie, G.K., V.C. Bleich, A.L. Medina, J. D. Yoakum, and J.W. Thomas

1996 Managing Rangelands for Wildlife. <u>In</u> Research and Management Techniques for Wildlife and Habitats. T.A. Bookhout, ed. The Wildlife Society. Bethesda, MD.

Kie, J.C., and E.R. Loft

1990 Using Livestock to Manage Wildlife Habitat: Some Examples from California Annual Grassland and Wet Meadow Communities. Journal of Range Management 43:7-24.

Kimball, T.L.

1957 The Economic Aspects of Livestock-Big Game Relationships as Viewed by a Big Game Administrator. Journal of Range Management 10:67-70.

Kindschy, R.R.

1986 Rangeland Vegetative Succession: Implications to Wildlife. Rangelands 8:157-159.

1996 Fences, Waterholes, and Other Range Improvements. <u>In Rangeland Wildlife</u>. P.R. Krausman, ed. The Society for Rangeland Management. Denver, CO.

Knapp, R.A., and K.R. Matthews

1996 Livestock Grazing, Golden Trout, and Streams in the Golden Trout Wilderness, California: Impacts and Management Implications. North American Journal of Fisheries Management 16:805-820.

Kondolf, G.M.

1993 Lag in Stream Channel Adjustment to Livestock Exclosure, White Mountains, California. Restoration Ecology 1:226-230.

- Krohn, W.B., and E.G. Bizeau
 - 1980 The Rocky Mountain Population of the Western Canada Goose: Its Distribution, Habitats, and Management. U.S. Fish and Wildlife Service Special Scientific Report Wildlife 229.
- Larsen, R.E., W.C. Krueger, M.R. George, M.R. Barrington, J.C. Buckhouse, and D.E. Johnson 1998 Viewpoint: Livestock Influences on Riparian Zones and Fish Habitat. Literature Classification. Journal of Range Management 51:661-664.
- Laycock, W.A.
 - 1991 Stable States and Thresholds of Range Condition on North American Rangelands: a Viewpoint. Journal of Range Management 44(5):427-433.
- Lauman, J.E.
 - 1977 Fish and Wildlife Resources of the John Day Basin, Oregon, and Their Water Requirements. Oregon Department of Fish and Wildlife. Portland, OR.
- Leonard, S.
 - 2000 Personal Communication on the vulnerability of biological soil crusts under various soil and moisture conditions. USDI-BLM, Prineville District, Prineville, OR.
- Leopold, L.B., and C. Vita-Finzi
 - 1998 Valley Changes in the Mediterranean and America and Their Effects on Humans. Proceedings of the American Philosophical Society 142(1):1-17.
- Li, H.W., G. Lamberti, T.M. Pearsons, C.K. Tait, J.L.Li and J.C. Buckhouse 1994 Cumulative Effects of Riparian Disturbances Along High Desert Trout Streams of the John Day Basin, Oregon. Transaction of American Fisheries Society 123:627-640.
- Liddle, M.J., and H.R.A. Scorgie
 - 1980 The Effects of Recreation on Freshwater Plants and Animals: A Review. Biological Conservation 17:183-206.
- Lindsay, R.B., W.J. Knox, M.W. Flesher, B.J. Smith, E.A. Olsen, and L.S. Lutz
 1986 Study of Wild Spring Chinook Salmon in the John Day River System, 1985 Final Report. Oregon
 Department of Fish and Wildlife, US Department of Energy, Bonneville Power Administration, Portland,
 OR.
- Link, S.O., B.D. Ryan, J.L. Downs, L.L. Cadwell, M.A. Hawke, and J. Ponzetti 2000 Lichens and Mosses on Shrub-Steppe Soils in Southeastern Washington. Northwest Science 74:50-56.
- Lowrance, R., R. Leonard, and J. Sheridan
 - 1985 Managing Riparian Ecosystems to Control Nonpoint Pollution. Journal of Soil and Water Conservation 40:87-91.
- Lowry, A.A.
 - 1996 Influence of Ruminant Digestive Processes on Germination of Ingested Seeds. Master of Science Thesis, Oregon State University. Corvallis, OR.
- Marble, J.R., and K.T. Harper
- 1989 Effects of Timing of Grazing on Soil-Surface Cryptogamic Communities in Great Basin Low-Shrub Desert: A Preliminary Report. Great Basin Naturalist 49:104-107.

Marlow, C.B., and T.M. Pogacnik

1985 Time of Grazing and Cattle-Induced Damage to Streambanks. In Riparian ecosystems and Their Management: Reconciling Conflicting Uses. R.R. Johnson, C.D. Ziebell, D.R. Patton, P.F. Folliott, and R.H. Hamre (Technical Coordinators). [First North American Riparian Conference, April 16-18, Tucson, AZ.] USDA Forest Service General Technical Report RM-120. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO.

Marshall, R. B.

1915 Profile Surveys in Spokane River Basin, Washington and John Day River Basin, Oregon. US Geological Survey Water-Supply Paper 377. Washington D.C.

Martin, J.E.

1995 Management of Vertebrate Paleontological Resources. Bureau of Land Management, Oregon State Office. Portland, OR.

McCune, B., and R. Rosentreter

1995 Field Dey to Soil Lichens of Central and Eastern Oregon. Unpublished Report. Oregon State University, Corvallis, OR.

McGinnis, Wendy J., R.H. Phillips, and K.P. Connaughton

1996 County Portraits of Oregon and Northern California. USDA Forest Service, PNW Research Station. PNW-GTR-377. Portland, OR.

Medin, D.E., and W.C. Clary

1990 Bird and Small Mammal Populations in a Grazed and Ungrazed Riparian Habitat in Idaho. USDA Forest Service Research Paper INT-425.

Meehan, W.R., F.J. Swanson, and J.R. Sedell

1977 Influences of Riparian on Aquatic Ecosystems with Particular Reference to Salmonid Fishes and Their Food Supply. In Importance, Preservation and Management of Riparian Habitat. USDA Forest Service General Technical Report RM-43:137-143. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO.

Memmott, K.L., V.J. Anderson, and S.B. Monsen

1998 Seasonal Grazing Impact on Cryptogamic Crusts in a Cold Desert Ecosystem. Journal of Range Management 51:547-550.

Mickelson, P.G.

1975 Breeding Biology of Cackling Geese and Associated Species on the Yudon-Kushokwim Delta, Alaska. Wildlife Monograph 45, The Wildlife Society, Washington, D.C.

Miller, R.F., J.M. Seufert, and M.R. Haferkamp

1994 The Ecology and Management of Bluebunch Wheatgrass (Agropyron spicatum): A Review. Agriculture Experiment Station Bulletin 669. Oregon State University, Corvallis, OR.

Miller, R.F., T.J. Svejcar, and N.E. West

1994 Implications of Livestock Grazing in the Intermountain Sagebrush Region: Plant Composition. In Ecological Implications of Herbivory in the West. M. Vavra, W.A. Laycock, and R.D. Piper, eds. Pages 101-146. Society of Range Management, Denver, CO.

Moffatt, R.L. R.E. Welleman, and J.M. Gordon

1990 Statistical summaries of Streamflow Data in Oregon: Volume I--Monthly and Annual Streamflow, and Flow-Duration Values. US Geological Survey Open-File Report 90-118. Prepared in cooperation with the Oregon Water Resources Department. Portland, OR.

Moulton, M.

1978 Small Mammal Associations in Grazed Versus Ungrazed Cottonwood Riparian Woodland in Eastern Colorado: A Symposium. Colorado Chapter, Wildlife Society and Colorado Audubon Council, Greeley, Co. pp.133-140.

Myers, T.J., and S. Swanson

1995 Impact of Deferred Rotation Grazing on Stream Characteristics in Central Nevada: A Case Study. North American Journal of Fisheries Management 15:428-439.

Norris, L.A.

1990 An Overview and Synthesis of Knowledge Concerning natural and Prescribed Fire in Pacific Northwest Forests. In Natural and Prescribed Fire in Pacific Northwest Forests. Walstad, J.D., S.R. Radosevich, and D.V. Sandberg, eds. Oregon State University Press. Corvallis, OR.

Northwest Power Planning Council

1992 Columbia River Basin Fish and Wildlife Program: Strategy for Salmon. Volume II. Portland, OR.

Ohmart, R.D.

1996 Historical and Present Impacts of Livestock Grazing on Fish and Wildlife Resources in Western Riparian Habitats. In Rangeland Wildlife. P.R. Krausman, ed. The Society for Range Management, Denver, CO. pp 245-280.

Oosting, H.J., editor

1956 The Study of Plant Communities: An Introduction to Plant Ecology. Second Edition. W.H. Freeman and Co., San Francisco, CA.

Oregon Administrative Rules

1998 Water Resources Department, Division 506, John Day Basin Program. Oregon State Archives.

Oregon Biodiversity Project

1998 Oregon's Living Landscape, Strategies and Opportunities to Conserve Biodiversity. Defenders of Wildlife, Lake Oswego, OR.

Oregon Department of Agriculture

2000 Agricultural Water Quality Management Area Plan, North and Middle Fork Subbasins of the John Day River (DRAFT). Oregon Department of Agriculture, Soil and Water Conservation District, Monument, OR.

Oregon Department of Environmental Quality

1988 Oregon Statewide Assessment of Nonpoint Sources of Water Pollution. Planning & Monitoring Section, Water Quality Division, Oregon Department of Environmental Quality. Portland, OR.

1995 Draft 1994/1996: List of Water Quality Limited Water Bodies: 303(d)(1) List.

1998 Public Comment Draft: Oregon's 1998 Section 303(d) List of Water Quality Limited Waterbodies.

Oregon Department of Fish and Wildlife

1989 John Day River Resident Fish Plan. Unpublished document. John Day, OR.

1990 Columbia Basin System Planning: Salmon and Steelhead Production Plan, John Day River Subbasin.

1995a John Day River Creel Survey, Boat and Bank Anglers: Lower River Trip 1992-1993. John Day, OR.

1995b Biennial Report on the Status of Wild Fish in Oregon. Edited by Kathryn Kostrow.

- 1996 John Day River Creel Survey: Middle Fork 1995. John Day, OR.
- 1997 Personal communication, T. Unterwegner, John Day Office.
- 1999 Personal communication, T. Unterwegner, John Day Office.

Oregon Department of Forestry.

Various Years Oregon Timber Harvest Report. Salem, OR.

Oregon Employment Department

Various Years Resident Labor Force Tables. Salem, OR.

1999 Oregon Labor Trends. Oregon Statewide Monthly Report of Average Hours and Earnings for Workers in Selected Industries. February. Salem, OR.

No Date a 1998 Regional Economic Profile: Region 9. Salem, OR.

No Date b 1998 Regional Economic Profile: Region 10. Salem, OR.

No Date c 1998 Regional Economic Profile: Region 12. Salem, OR.

No Date d 1998 Regional Economic Profile: Region 13. Salem, OR.

No Date e 1998 Regional Economic Profile: State of Oregon. Salem, OR.

Oregon Parks and Recreation Department

1988 Oregon Outdoor Recreation Plan 1988-1993. Prepared by Parks and Recreation Division, Planning and Grants Section.

1991 Recreational Needs Bulletin: Oregon State Comprehensive Outdoor Recreation Plan. Prepared by Parks and Recreation Department, Grants and Program Planning Section.

1994 Oregon Outdoor Recreation Plan 1994-1999. Prepared by Policy and Planning Division.

Oregon State Marine Board

1987 River Use Conflicts in Oregon: A Study of Jet Boat Use on Oregon's Rivers and Streams. A Technical Report to the State Marine Board Director prepared by J.C. Draggoo & Associates, Portland, OR.

Oregon State University Extension Service

1998 1997 Oregon County and State Agricultural Estimates. Special Report 790, July. Corvallis, OR.

Various Years [Annual] Oregon County and State Agricultural Estimates. Special Report 790. Corvallis, OR.

Oregon Tourism Commission

1997 Oregon Travel Impacts and Visitor Volume, 1991-1997. December. Salem, OR. Prepared by Dean Runyan and Associates. Portland, OR.

Oregon Water Resources Department

1986 John Day River Basin Report. William H. Young, Director. State of Oregon Water Resources Department, Salem, OR.

2000 Streamflow Data: Guage 14044000, Middle Fork John Day River at Ritter, Oregon. [on line] URL: http://www.wrd.state.or.us/cgi-bin/choose gage.pl?huc=17070203

Oregon Water Resources Department and Commission

1999 Strategic Plan for Managing Oregon's Water Resources 1999-2001: Planning for a New Century. State of Oregon Publishing and Distribution Division, Salem, OR.

Pearson, L.C., and S.K. Rope

1987 Lichens of the Idaho National Engineering Laboratory. Department of Energy/ID-12110. Radiological and Environmental Sciences Laboratory, US Department of Energy, Idaho Falls, ID.

Platts, W.S.

1979 Livestock Grazing and Riparian/Stream Ecosystems. In Proceedings, Forum-Grazing and Riparian/Stream Ecosystems. Trout Unlimited, Inc., Vienna, VA.

1990 Managing Fisheries and Wildlife on Rangelands Grazed by Livestock, a Guidance and Reference Document for Biologists. Nevada Department of Wildlife.

1991 Livestock Grazing. <u>In Influences of Forest and Rangeland Management on Salmonid Fishes and Their Habitats</u>. Pages 389-483. American Fisheries Society Special Publication 19, Bethesda, MD.

Platts, W.S. and R.L. Nelson

1985 Stream habitat and fisheries Response to Livestock Grazing and Instream Improvement Structures, Big Creek, Utah. Journal of Soil and Water Conservation 40(4):374-379.

Polk, M.R.

1976 Cultural Resource Inventory of the John Day River Canyon. Report on file Prineville District BLM, Prineville, OR.

Ponce, S.L.

1989 Baseflow Augmentation by Streambank Storage: Literature Review and Annotated Bibliography (Draft). Contract Report Z-19-0-893-88. Pacific Gas and Electric Company, Research and Development, San Ramon, CA.

Ponce, S.L., and H.L. Gary

1979 The Effect of Lake-Based Recreation and Second Home Use on Surface Water Quality in the Manitou Experimental Forest. USDA Forest Service Research Paper RM-211. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO.

Punchy, C.A. and D.B. Marshall

1993 Oregon Wildlife Diversity Plan. Oregon Department of Fish and Wildlife, 2nd edition. Portland, OR.

Quigley, T.M., and S.J. Arbelbide (technical editors)

1997 An Assessment of Ecosystem Components in the Interior Columbia Basin and Portions of the Klamath and Great Basins: Volume I-IV. General Technical Report PNW-GTR-405. Portland, OR.

Raveling, D.G.

1979 Traditional Use of Migration and Winter Roost Sites by Canada Geese. Journal of Wildlife Management 43:229-235.

Ray, V.F., G.P. Murdock, B. Blythe, and O. Stewart

1938 Tribal Distribution in Eastern Oregon and Adjacent Regions. American Anthropologist 40:384-415.

Ringer, F.

1998 Conservation Reserve Enhancement Program: A Partnership Between Landowners, Oregon and U.S. Department of Agriculture. USDA Farm Service Agency.

Rinne, J.N.

1985 Livestock Grazing Effects on Southwestern Streams: A Complex Research Problem. <u>In Riparian Ecosystems and Their Management: Reconciling Conflicting Uses.</u> First North American Conference. R.R. Johnson, C.D. Ziebell, D.R. Patton, P.F. Ffolliott, R.H. Hamre (tech. eds.). USDA Forest Service General Technical Report RM-120. Fort Collins, CO. pp 295-299.

Rinne, J.N., and R.A. LaFayette

1991 Southwestern Riparian Stream Ecosystems: Research Design, Complexity, and Opportunity. USDA Forest Service Research Paper RM-299. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO.

Robinson, W.L., and E.G. Bolen

1989 Wildlife Ecology and Management. Macmillan Publishing Co., New York, NY.

Rosentreter, R.

1986 Compositional Patterns within a Rabbitbrush (Chrysothamnus) Community of the Idaho Snake River Plain. <u>In Proceedings, Symposium on the Biology of Artemesia and Chrysothamnus.</u> USDA Forest Service Intermountain Research Station General technical Report INT-2000.

Saab, V.A., C.E. Bock, T.D. Rich, and D.S. Dobkin

1995 Livestock Grazing Effects on Migratory Landbirds in Western North America. <u>In Ecology</u> and Management of Neotropical Migratory Birds: A Synthesis and Review of Critical Issues. T.E. Martin and D.M. Finch, eds. Oxford University Press, New York, pp 311-353.

Sanderson, H.R., T.M. Quigley, E.E. Swan, and L.R. Spink

1990 Specifications for Structural Range Improvements. USDA Forest Service, Pacific Northwest Research Station, General Technical Report PNW-250.

Sarr, D., R.A. Knapp, J. Owens, T. Balser, and T. Dudly

1996 Ecosystem Recovery from Livestock Grazing in the Southern Sierra Nevada. Aldo Leopold Wilderness Research Institute, Missoula, MT.

Satterthwaite, T.D.

1995 Effects of Boat Traffic on Juvenile Salmonids in the Rogue River. Prepared by the Oregon Department of Fish and Wildlife for the USDI - BLM, Medford District.

Schalk, Randall F. (editor)

1987 Archeology of the Morris Site (35GM91) on the John Day River, Gilliam County, Oregon. Prepared by the University of Washington, Office of Public Archaeololgy, for the US Army Corps of Engineers, Portland District.

Schlosser, I.J., and J.R. Karr

1981 Riparian Vegetation and Channel Morphology Impact on Spatial Patterns of Water Quality in Agricultural Watersheds. Environmental Management 5:233-243.

Schumm, S.A. and David F. Meyer

1979 Morphology of Alluvial Rivers of the Great Plains. <u>In</u> Riparian and Wetland Habitats of the Great Plains: Proceedings of the 31st Annual Meeting, Great Plains Agricultural Council. Publication Number 91. Rocky Mountain Forest and Range Experiment Station, Fort collins, CO.

Scott, W.B., and E.J. Crossman

1973 Freshwater Fishes of Canada. Bulletin184. Fisheries Research Board of Canada, Ottawa. Ontario.

Scotter, G.W.

1980 Management of Wild Ungulate Habitat in the western United States and Canada: A Review. Journal of Range Management 33:16-27.

Sebatian, Lynne

1993 Protecting Traditional Cultural Properties Through the Section 106 Process. <u>In CRM, Special Issue 16:22-26.</u> National Park Service, Washington, D.C.

Sedgwick, J.A., and F.L. Knopf

1991 Prescribed Grazing as a Secondary Impact in a Western Riparian Floodplain. Journal of Range Management 44:369-373.

Settergren, C.D.

1977 Impacts of River Recreation Use on Streambank Soils and Vegetation: State-of-the-Knowledge. <u>In</u> Proceedings of River Recreation Management and Research Symposium. USDA Forest Service General Technical Report NC-28. pp 55-59.

Severson, K.E. (Technical Coordinator)

1990 Can Livestock Be Used as a Tool to Enhance Wildlife Habitat? USDA Forest Service General Technical Report RM-194.

Shaw, N.L.

1992 Recruitment and Growth of Pacific Willow and Sandbar Willow Seedlings in Response to Season and Intensity of Cattle Grazing. <u>In Symposium on Ecology and Management of Riparian Shrub Communities</u>. Sun Valley, ID., May 29-31, 1991. pp 130-137.

Sherer, B.M., J.R. Miner, J.A. Moore, and J.C. Buckhouse

1988 Resuspending Organisms from a Rangeland Stream Bottom. Transactions of the American Society of Agricultural Engineers 31:1217-1222.

1992 Indicator Bacterial Survival in Stream Sediments. Journal of Environmental Quality 21:591-596.

Sherwood, G.A.

1965 Canada Geese of the Seney National Wildlife Refuge. Completion Report for Wildlife Management Studies 1 and 2, Seney National Wildlife Refuge, Seney, Michigan. U.S. Fish and Wildlife Service, Region 3, Minneapolis, MN.

Shrader, T., and M.E. Gray

1998 Biology and Management of John Day River Smallmouth Bass. Information Reports Number 99-1. Oregon Department of Fish and Wildlife: Fish Division. Portland, OR.

Siekert, R.E., Q.D. Skinner, M.A. Smith, J.L. Dodd, and J.D. Rodgers

1985 Channel Response of an Ephemeral Stream in Wyoming to Selected Grazing Treatments. In Riparian Ecosystems and Their Management: Reconciling Conflicting Uses. First North American Conference. R.R. Johnson, C.D. Ziebell, D.R. Patton, P.F. Ffolliott, R.H. Hamre (tech. eds.). USDA Forest Service General Technical Report RM-120. Fort Collins, CO. pp 27-278.

Skinner, Q.D.

1998 Stubble Height and Function of Riparian Communities. <u>In Stubble Height and Utilization Measurements</u>: Uses and Misuses. R. Heitschmidt, ed. Agricultural Experiment Station, Oregon State University, Station Bulletin 682. Corvallis, OR.

Skovlin, J.M.

1984 Impacts of Grazing on Wetlands and Riparian Habitat. In Developing Strategies for Rangeland Management. National Research Council/National Academy of Sciences (eds). Westview Press, Inc., Boulder, CO.

Smith, E.L.

1989 Range Condition and Secondary Succession: a Critique. <u>In</u>, Secondary Succession and the Evaluation of Rangeland Condition. W.K. Laurenroth and W.A. Laycock (editors). Westview Press, Boulder CO.

- Solley, W.B., R.R. Pierce, and H.A. Perlman
 - 1998 Estimated Use of Water in the United States in 1995. USGS Circular 1200.
- Stankey, G.H., D.N. Cole, R.C. Lucas, M.E. Petersen, and S.S. Frissell

1985 The Limits of Acceptable Change (LAC) System for Wilderness Planning. USDA Forest Service General Technical Report INT-176, Intermountain Forest and Range Experiment Station, Ogden, UT.

- St. Claire, L.L., J.R. Johansen, and S.R. Rushforth
 - 1993 Lichens of Soil Crust Communities in the Intermountain Area of the Western United States. Great Basin Naturalist 53:5-12.
- Stephenson, G.R., and L.V. Street

1978 Bacterial Variation in Streams from a Southwest Idaho Rangeland Watershed. Journal of Environmental Quality 7(1):150-157.

- Stephenson, G.R., and R.C. Rychert
 - 1982 Bottom Sediment: A Reservoir of Escherichia coli in Rangeland Streams. Journal of Range Management 35:119-123.
- Steward, O.C.

1939 The Northern Paiute Bands. Anthropological Records, vol. 2, no. 3. University of California Press, Berkeley.

- Stohlgren, T.J., K.A. Bull, Y. Otsuki, C.A. Villa, and M. Lee
 - 1998 Riparian Zones as Havens for Exotic Plant Species in the Central Grasslands. Plant Ecology 138:113-125.
- Stohlgren, T.J., D. Brinkley, G.W. Chong, M.A. Kalkhan, L.D. Schell, K.A. Bull, Y. Otsuki, G. Newman, M. Bashkin, and Y. Son

1999a Exotic Plant Species Invade Hot Spots of Native Plant Diversity. Ecological Monographs, 69(1):25-46.

- Stohlgren, T.J., L.D. Schell, and B. Vanden Heuvel
 - 1999b How Grazing and soil Quality Affect Native and Exotic Plant Diversity in Rocky Mountain Grasslands. Ecological Applications, 9(1):45-64.
- Stringham, T.K., J.C. Buckhouse, and D.W. Krueger

1998 Stream Temperatures as Related to Subsurface Waterflows Originating from Irrigation. Journal of Range Management 51:88-90.

- Suphan, R.J.
 - 1974 Ethnological Report on the Wasco and Tenino Indians. Ethnological Report on the Umatilla, Walla Walla, and Cayuse Indians: Commission Findings. In Oregon Indians II, edited by D.A. Horr, pp. 1-180. New York: Garland Series in American Indian Ethnohistory.
- Sutherland, A.J., and D.G. Ogle

1975 Effect of Jet Boats on Salmon Eggs. New Zealand Journal of Marine & Freshwater Research 9:273-282.

- Taylor, G. H.
 - 1999 Long-Term Wet-Dry Cycles in Oregon. [on line] URL: http://www.ocs.orst.edu/reports/wet-dry.html
- Thomas, J.W., C. Maser, and J.E. Rodiek

1979 Wildlife Habitats in Managed Rangelands - The Great Basin of Southeastern Oregon; Riparian Zones. USDA Forest Service, USDI Bureau of Land Management General Technical Report PNW-80 (special edition, March 1986). Pacific Northwest Forest and Range Experimental Station, Portland, OR.

- Tiedeman, J.A., D.A. Higgins, T.M. Quigley, J.R. Sanderson, and D.B. Marx
 - 1987 Responses of Fecal Coliform in Streamwater to Four Grazing Strategies. Journal of Range Management 40:322-329.
- Tiedeman, J.A., R. Beck and R. Vanhorn Ecret

1991 Dependence of Standing Crop on Range Condition Rating in New Mexico. Journal of Range Management 44(6):602-605.

Tubbs, N.J.

1922 Reconnaissance Report of John Day River, Oregon, to Classify Adjacent Lands as to Power Site Values. US Geological Survey. Portland, OR.

US Army Corps of Engineers

1987 Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1. U.S. Army Corps of Engineers, Washington DC.

USDA, Forest Service

1990 Final Environmental Impact Statement: Land and Resource Management Plan, Malheur National Forest. USDA Forest Service, Pacific Northwest Region, Portland, OR.

1993 Environmental Assessment for the North Fork of the John Day Wild and Scenic River Management Plan. Umatilla and Wallowa-Whitman National Forests. June 1993. pp II-18 to II-19.

1998 Upper Middle Fork John Day Watershed Analysis Report. USDA-FS, Malheur National Forest, Grant Co., OR.

USDA Forest Service and USDI Bureau of Land Management

1995 Decision Notice/Decision Record, Finding of No Significant Impact, Environmental Assessment for the Interim Strategies for Managing Anadromous Fish-Producing Watersheds in Eastern Oregon and Washington, Idaho, and Portions of California. Decision Notice/Record, Finding of No Significant Impact.

- USDA Forest Service, USDI Bureau of Land Management, and USDA Natural Resources Conservation Service 1997 Accelerating Cooperative Riparian Restoration and Management: An Interagency Strategy. Prepared by The National Riparian Service Team. July.
- USDA, Natural Resources Conservation Service

1996 Environmental Quality Incentives Program Fact Sheet - 1996 Farm Bill Conservation Provisions [online] URL: http://www.nhq.nrcs.usda.gov/OPA/FB96OPA/eqipfact.

- 1997 National Range and Pasture Handbook. Washington, D.C.
- 1998 Oregon Field Office Technical Guide, Practice Standard 393A Filter Strip, January 1998.
- USDA, Soil Conservation Service and Oregon Agricultural Experiment Station 1964 Soil Survey, Sherman County, Oregon.
- USDA, Soil Conservation Service and Oregon Agricultural Experiment Station 1975 Soil Survey of Grant County, Oregon, Central Part.
- USDA, Soil Conservation Service, Oregon Agricultural Experiment Station and Forest Service 1970 Soil Survey of Trout Creek-Shaniko Area, Oregon.
- USDA, Soil Conservation Service and Oregon Agricultural Experiment Station. 1977 Soil Survey of Gilliam County, Oregon.

USDI, Bureau of Land Management

1985a John Day Resource Management Plan, Record of Decision, Rangeland Program Summary (RPS). Burns District, BLM. Burns, OR.

1985b Northwest Area Noxious Weed Control Program FEIS. Bureau of Land Management, Oregon State Office, Portland, OR.

1986a Two Rivers Resource Management Plan, Record of Decision, Rangeland Program Summary (RPS). Prineville District, BLM. Prineville, OR.

1986b Muddy Creek Land Exchange. Cultural Resource Report #85-05-03. Report on file Prineville District, BLM. Prineville, OR.

1987a Supplemental to the Northwest Area Noxious Weed Control Program FEIS. Bureau of Land Management, Oregon State Office, Portland, OR.

1987b Handbook H-8372-1, Special Recreation Permits for Commercial Use. Bureau of Land Management, Washington, D.C.

1987c John Day River Bighorn Sheep Reintroduction Environmental Assessment (OR-050-7-38). Prineville District, BLM. Prineville, OR.

1989a Recreation 2000: A Strategic Plan. Bureau of Land Management, Washington Office. Washington, D.C.

1989b Fencing. BLM Manual Handbook H-1741-1

1991a South Fork of the John Day Wild and Scenic River Resource Assessment. Prineville District, BLM. Prineville, OR.

1991b Lower John Day Wild and Scenic River Resource Assessment. Prineville District, BLM. Prineville, OR.

1991c Vegetation Treatment on BLM Lands in Thirteen Western States FEIS. Bureau of Land Management, Wyoming State Office. Cheyenne, WY.

1991d Wilderness Study Report: Volume I. Bureau of Land Management, Oregon State Office. Portland, OR.

1992a Riparian Area Management TR 1737-7: Procedures for Ecological Site Inventory - With Special Reference to Riparian-Wetland Sites. USDI, BLM, Denver, CO.

1992b South Fork John Day River Photo Points. Prineville District, BLM. Prineville, OR.

1992c Wild and Scenic Rivers - Policy and Program Direction for Identification, Evaluation, and Management. BLM Manual 8351.

1993 Riparian Area Management TR 1737-9: Process for Assessing Proper Functioning Condition. USDI, BLM, Denver, CO.

1994 Prineville District Integrated Weed Management Environmental Assessment #OR-053-3-062). Prineville District, BLM. Prineville, OR.

1995a Sutton Mountain Coordinated Resource Management Plan (CRMP). Prineville District BLM. Prineville, OR.

1995b BLM Manual H-8550-1: Interim Management Policy for Lands Under Wilderness Review.

1995c Native Hardwood Supplementation Project Environmental Assessment (#OR-054-95-004). BLM Prineville District. Prineville, OR.

1996a An Evaluation of the Willow Recovery Status along the John Day River. USDI, BLM, Prineville, OR.

1996b North Fork John Day River and Tributaries. Prineville District, BLM. Prineville, OR.

1996c Clarno Homestead Stream Rehabilitation Project. Environmental Assessment No. OR-054-5-47. Prineville District BLM. Prineville, OR.

1996d Sutton Mountain Coordinated Resource Plan (CRMP): Decision Record. Prineville District BLM. Prineville, OR.

1997a Standards for Rangeland Health and Guidelines for Livestock Grazing Management of Public Lands Administered by the Bureau of Land Management in the States of Oregon and Washington. BLM, Oregon State Office, Portland, OR.

1997b Lower John Day River Integrated Weed Management Environmental Assessment/ Decision Record #OR-054-3-063. Prineville District BLM. Prineville, OR.

1997c Supplement to the Lower Deschutes River Management Plan, Final Decision, Lower Deschutes River Allocation System. Prineville District, BLM. Prineville, OR.

1998a Endangered Species Act Riparian Monitoring, Prineville District, BLM. Prineville, OR.

1998b Northeast Oregon Assembled Land Exchange and Final Environmental Impact Statement. Prineville District, BLM. Prineville, OR.

1998c Riparian Area Management TR 1737-15: A User Guide to Assessing Proper Functioning Condition and the Supporting Science for Lotic Areas. USDI, National Applied Resource Sciences Center, Denver, CO.

1998d Draft Southeast Oregon Resource Management Plan/Environmental Impact Statement. BLM Vale District Office. Vale, OR.

1998e Northeast Assembled Land Exchange Survey: Cultural Report 97-05-01(+). Prineville District, BLM. Prineville, OR.

2000 Interpreting Indicators of Rangeland Health Version 3.0. In Interagency Rangeland Health Evaluation Technical Reference. USDI-BLM, National Training Center, Pheonix, AZ.

USDI, National Park Service and USDA, Forest Service

1995Federal Wildland Fire Management Policy and Program Review. Final Report. Boise, Idaho: National Interagency Fire Center.

1998 Wildland and Prescribed Fire Management Policy: Implementation Procedures Reference Guide. Prepared at the National Interagency Fire Center, Boise, Idaho. August 1998.

USDI-US Geologic Survey

1998 Water Resources Data Oregon Water Year 1998. Water-Data Report OR-98-1.

1999 Water Resources Data Oregon Water Year 1999. Water-Data Report OR-99-1.

2000a Historical Streamflow Daily Values for the John Day River at McDonald Ferry, OR. [on line] URL: http://waterdata.usgs.gov/nwis-w/OR/data.components/hist.cgi?statnum=14048000

2000b Historical Streamflow Daily Values for the John Day River at Service Creek, OR. [on line] URL: http://waterdata.usgs.gov/nwis-s/OR/data.components/hist.cgi?stratnum=14046500

Van Haveren, B.P., J.E. Williams, M.L. Pattison, and J.R. Haugh

1997 Restoring the Ecological Integrity of Public Lands. Journal of Soil and Water Conservation, July-August:226-231.

Vidourek, B.

1998 Personal Communications by FAX. November 24.

Weber, M.

1999 Personal Communication (FAX). 1998 Agricultural Statistics: Central Oregon. By Marvin Butler, OSU Extension Crop Scientist.

Westoby, M., B. Walker, and I. Noy-Meir

1989 Opportunistic Management for Rangelands not at Equilibrium. Journal of Range Management, Vol.42(4): 266-274.

Wiens, J.A., and M.I. Dyer

1975 Rangeland Avifaunas: Their Composition, Energetics, and Role in the Ecosystem. <u>In Symposium on Management of Forest and Range Habitats for Nongame Birds. D.R. Smith, ed. USDA Forest Service General Technical Report WO-1. Washington, D.C. pp 146-182.</u>

Willamette Kayak & Canoe Club

1994 Soggy Sneakers: A Guide to Oregon Rivers. Third Edition. The Mountaineers. Seattle, WA.

Wineburg, H.

1998 Population Estimates for Oregon: July 1, 1997. Center for Population Research and Census. Portland State University. Portland, OR.

York, D.

1994 Recreational-Boating Disturbances of Natural Communities and Wildlife: An Annotated Bibliography. U.S. Department of Commerce. National Biological survey. Biological Report 22.

Young, D.K.

1991 BLM Staff Report, Prineville District.

APPENDIX C John Day River Management Plan ESA Consultation Summary

1. AQUATIC SPECIES

Mid-Columbia Steelhead - The following consultations have been completed with NMFS

- a. Endangered Species Act Section 7 Consultation Biological Opinion Ongoing and Proposed Bureau of Land Management Activities Affecting Middle Columbia River Steelhead, John Day River Basin. Dated: November 30, 1999.
- b. Section 7 Informal Consultation on Ongoing and Proposed Actions in the Central Oregon Resource Area, Prineville District, Bureau of Land Management, John Day River Basin. Dated: June 28, 2000.
- c. Endangered Species Act Section 7 Consultation Biological Opinion and Magnuson-Stevens Act Essential Fish Habitat Consultation, Livestock Grazing on Lands Administered by the Bureau of Land Management in the John Day River Basin, Oregon 2000 & 2001. Dated: January 17, 2001.
- d. Endangered Species Act Section 7 Informal Consultation and Magnuson-Stevens Act Essential Fish Habitat Consultation for the John Day River Proposed Management Plan, John Day River Basin, Prineville District Office, BLM. Dated: February 16, 2001.

Bull Trout - The following consultation has been completed with USFWS

- a. Informal Consultation on Proposed Grazing and Timber Harvest Activities in the Middle Fork and Upper John Day River Subbasins, Oregon. Dated: July 12, 1999.
- Formal Consultation for Ongoing Activities on the North Fork John Day River (1-7-00-F-422) [Grazing - Vale District]. Dated: June 12, 2000.
- c. Formal Consultation for Ongoing Activities on the North Fork John Day River (1-7-01-F-281) [Grazing Prineville District]. Dated: February 26, 2001.
- d. John Day River Management Plan Section 7 Consultation [1-7-10-I-254(01)]. Dated: February 27, 2001.
- e. Consultation for Activities in the John Day River Basin (1-7-01-TA-311). Dated: February 27, 2001.

2. TERRESTRIAL SPECIES

a. Wildlife Assessment for Listed, Proposed, and Special Status Species for the John Day River Management Plan and Environmental Impact Statement. Dated: August 29, 2000.

APPENDIX D EPA Comments and Responses

TO THE STATE OF TH

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10

1200 Sixth Avenue Seattle, WA 98101

November 15, 2000

Reply To

Attn Of: ECO-088

Mr. Dan Wood
Bureau of Land Management
Prineville District Office
P.O. Box 550
Prineville, Oregon 97754

Dear Mr. Wood:

The Environmental Protection Agency has reviewed the John Day River Proposed Management Plan, Two Rivers and John Day Resource Management Plan Amendments and Final Environmental Impact Statement (FEIS). We would like to offer comments as a follow-up to those we made on the Draft EIS and to our site visit with your staff.

We understand that it was a great deal of work, and it has made a difference in terms of the document's clarity and content. The additions pertaining to water quality are particularly helpful in laying the groundwork for developing a Water Quality Restoration Plan and future TMDL. We want to thank you for your responsiveness and for your intentions to fully cooperate with ODEQ to improve water quality.

We are also encouraged to see modifications to proposed decisions that are responsive to some of the comments made by EPA and others. We have noted the changes regarding water quality and water quantity within the FEIS Volume 1, although we did not find any EPA comments/responses in Volume 3, Summary of Public Comments and Responses; please advise if we have overlooked them. Thus, for our comments on other subjects, we derived your responses from those prepared in reply to other parties in Volume 3, as well as from the review of Volume 1. We have a few remaining comments and, as can be expected, some of the changes have stimulated new questions. Briefly, we'd like to share the following:

Desired conditions. Criteria for assessing the health or condition of some resources are ambiguous. For example, there are no criteria listed for evaluating the condition/level of protection for paleontological resources or cultural resources. What specifically will trigger action to increase protection?

For microbiotic crusts, the FEIS (p. 137) states that "large portions of the landscape" should have biological soil crusts, and litter. How much or what percentage of the landscape should support these features, and what will define an unacceptable condition that stimulates further management action? What mitigation measures are feasible for damages to microbiotic crusts (FEIS, p. 230)?

Agriculture. We commend BLM for the proposed decision to terminate irrigation for ag lands owned and managed by BLM, and we support the proposed decision to phase out commodity production on BLM ag lands. Both of these actions should contribute in a positive way to water quantity and water quality in the John Day River.

Grazing. The proposed decisions with respect to grazing rely heavily on the expectation by BLM that cool season grazing (winter/spring) is essentially equivalent to rest from grazing in terms of fostering vegetative recovery in riparian areas. To test this, we are pleased that BLM intends to monitor areas rested from grazing with those that are grazed in winter/spring. Where and to what extent will exclusion of grazing be implemented to compare differences in results, and when, how, and with whom will the results of the comparison be shared? We would like to be informed of the outcomes.

It appears that the timeframe for making assessments of the efficacy of cool season grazing prescriptions, and consequently for making needed adjustments is quite long (mid-term determinations of 3 and 7 years for winter grazed pastures, and years 5-6 for spring-grazed pastures, FEIS p. 196). Thus, it appears that any decision to adopt complete rest from grazing, should it be necessary to enable acceptable recovery, would not likely occur until at least 14 and 12 years respectively. Given the condition of areas within the WSR corridor that have historically suffered from improper grazing practices, it seems a long time to wait to make needed adjustments.

On page 243 of the FEIS, BLM advocates active management for grazing as opposed to elimination of grazing based on their theory that land management partners and neighbors will be positively influenced by BLM's efforts and level of success. This rationale seems reasonable, and it offers a theory that may be worth testing. Would BLM be willing to monitor or report on change (human behavioral change as well as environmental change) within the corridor to validate this view?

The focus of recovery appears to be centered upon vegetative recovery, which does not fully account for other related impacts due to grazing, such as impacts to wildlife. Installation of additional fencing can result in wildlife collisions, entanglements, and entrapments (FEIS p. 233). Soil disturbance can impact amphibians, reptiles, and small mammals, which depend upon subterranean habitats. With the application of spring grazing, ground nesting birds and other species are affected at the time of year when they are most vulnerable to disturbance, trampling, and loss of vegetation that provides hiding cover. In order to protect the Outstanding Resource Values (ORVs) in the John Day corridor, it will be necessary to evaluate grazing impacts and recovery with respect to all of the ORVs and their supporting factors that can be affected by grazing cattle.

The FEIS also proposes a 2000 cfs grazing restriction. There is no explanation as to how the BLM arrived at this flow level as an effective grazing restriction, and there is no description of the flows at 2000 cfs that would characterize the advantages of using it. In order to evaluate the potential effectiveness of the 2000 cfs restriction, it is important to describe what the river flows tend to be on a calendar-year basis. To what extent do river flows fluctuate above and below this level, and at what times of the year? On page 245 of the FEIS, BLM states that the "John Day River is subject to dramatic fluctuations in flow from year to year, season to season, and even day to day." If fluctuations are so frequent and dramatic, how will grazing be effectively managed to respond to these fluctuations?

BLM also proposes to eliminate the 2000 cfs restrictions if winter grazing evaluations indicate that [grazing] standards are being met. If this restriction enables standards to be met, why eliminate it? Wouldn't evidence of recovery be a good reason to continue the restriction as long as it was, in fact, instrumental in achieving recovery?

In Segment 1, BLM proposes to establish new riparian grazing pastures (FEIS p. 171). Why institute new grazing in a Wild and Scenic River corridor that is in need of recovery and protection?

Finally, the FEIS indicates that funding is assumed to continue similar to current levels (FEIS, p. 194). We are concerned that the BLM may not have the resources necessary to adequately implement and monitor compliance with all prescriptions on the 122 allotments within the John Day WSR

corridor, as well as their work outside the corridor. What measures will be taken to ensure implementation and enforcement?

Tribal trust responsibility, ESA compliance. Because this has been a collaborative planning process involving several agencies and tribes, we ask that BLM include in the Record of Decision (ROD) the views of the Tribes and other planning partners with respect to the decisions being made. We urge BLM to fully factor the Tribal interests and treaty rights into the decision making process, and to document the roles of the planning partners as co-managers of the WSR corridor. We also ask that the results of consultation with the Services be included in the ROD with respect to ESA listed species that are directly or indirectly affected by this plan.

Again, we would like to thank the BLM for their work on the John Day Wild and Scenic River Management Plan, and encourage the agency to continue to work collaboratively with management partners to successfully protect and restore the outstandingly remarkable resource values in this important watershed. If you would like to discuss these comments, please contact Elaine Somers of my staff at 206/553-2966.

Sincerely,

Richard B. Parkin, Manager Geographic Implementation Unit